

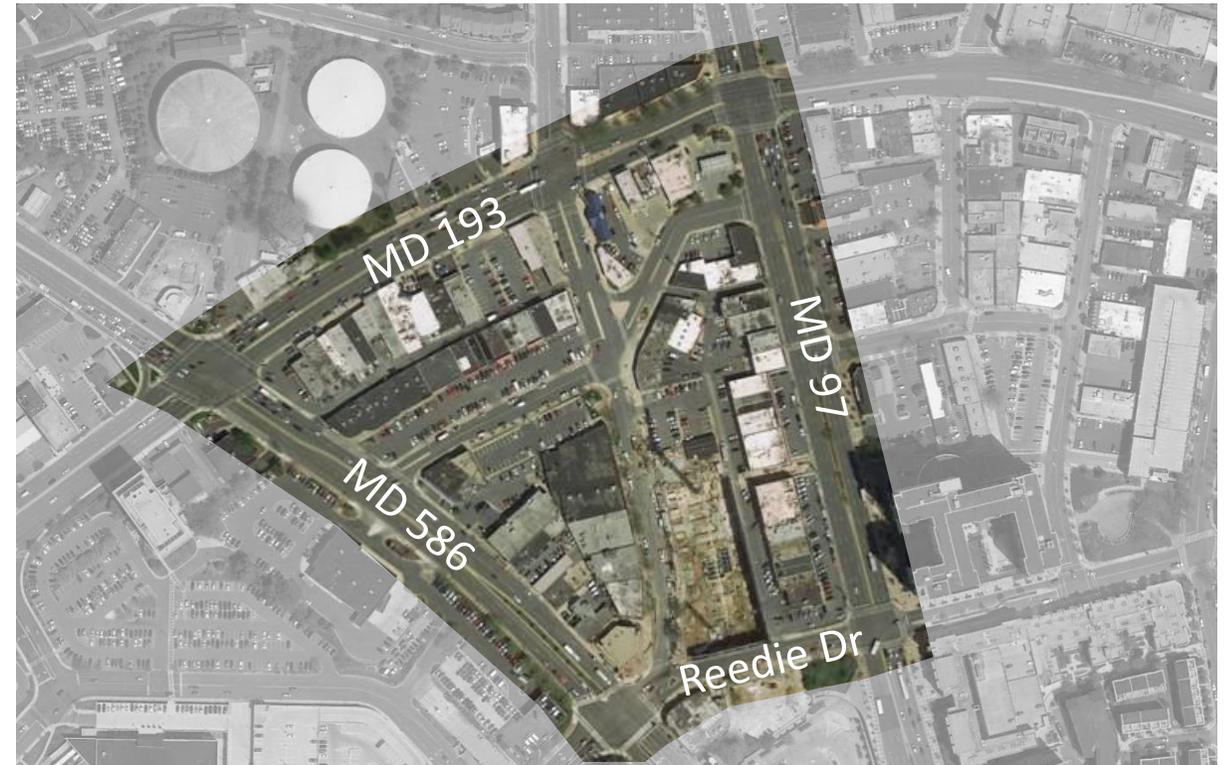
Montgomery County Department of Transportation Wheaton Redevelopment



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Agenda

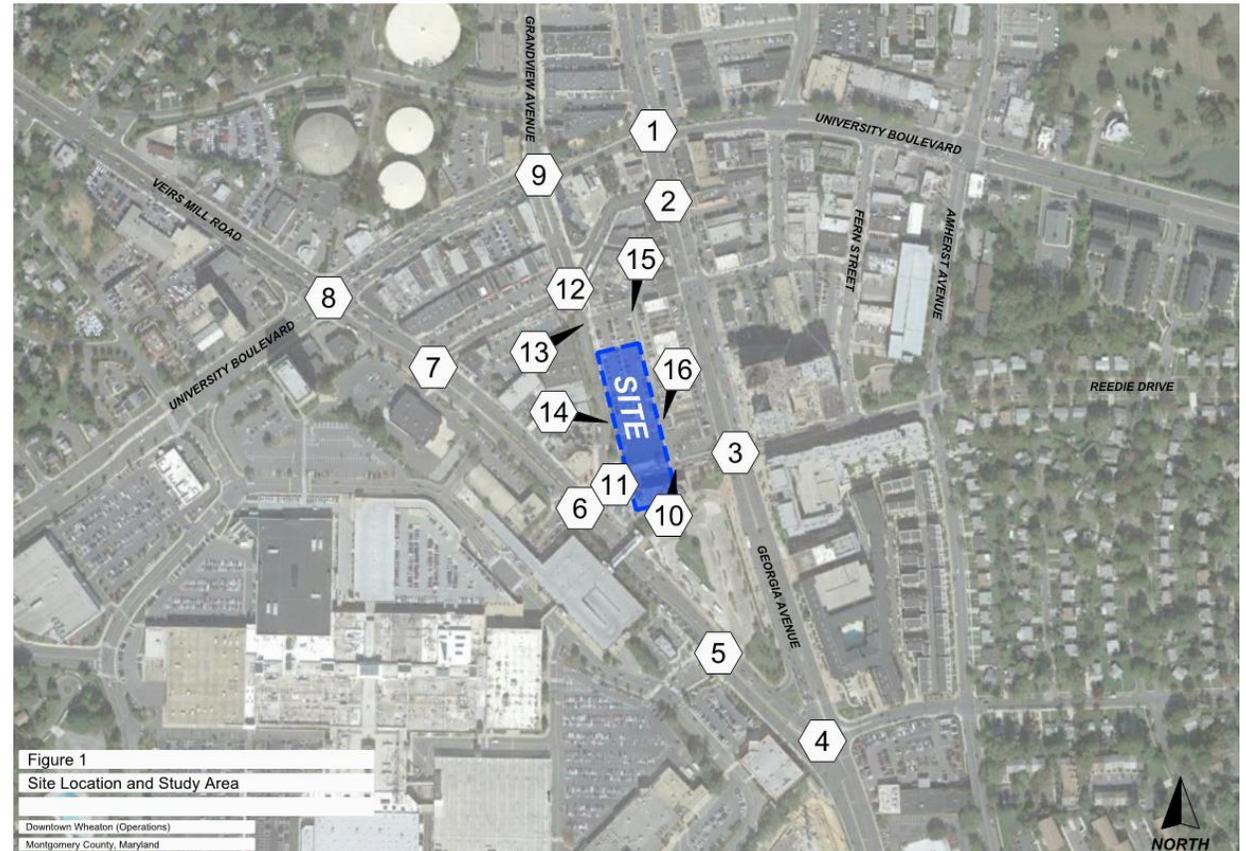
1. Review of Previous Studies
2. Ongoing Area Projects
3. Reddie Drive Improvements
4. Grandview Avenue Improvements
5. Triangle Lane Improvements
6. Improvements at Signalized Intersections
7. Q & A



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2015 Traffic Study - Project Scope

- Traffic Impact Study conducted in April 2015
- Proposed site includes office building and ground floor retail
 - 265,000 SF of Office
 - 12,000 SF of Retail
- Existing traffic counts conducted in January 2015



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2015 Study Results

- Results at signalized intersections similar for the future condition scenario
- Follow-Up study conducted in November 2015
 - Pedestrian Initiative Timings implemented
 - Adjustments made to improve future LOS at:
 - MD 97 at MD 193
 - Grandview Ave at MD 193

| Overall Level of Service Summary | | | | |
|----------------------------------|-----------|---------------|--------|----------------|
| Intersection | Peak Hour | Existing 2015 | Future | Updated Future |
| MD 586 at MD 193 | AM | E | E | E |
| | PM | E | F | E |
| Grandview Ave at MD 193 | AM | B | C | C |
| | PM | B | C | D |
| MD 97 at MD 193 | AM | D | D | D |
| | PM | D | E | D |
| MD 586 at Reddie Dr | AM | D | D | C |
| | PM | D | D | C |
| MD 97 at Reddie Dr | AM | B | A | B |
| | PM | C | C | C |

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2017 Study Capacity Results

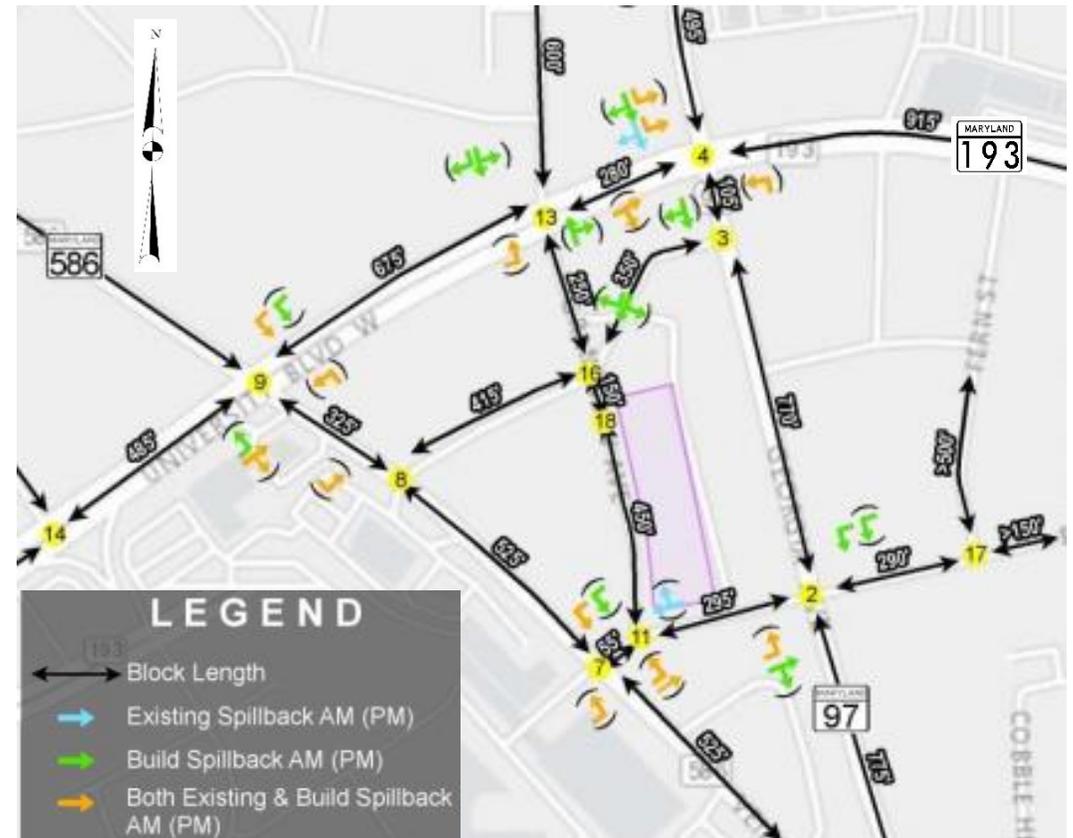
- New Traffic Impact Study conducted due to change in proposed development
 - 308,200 SF of Office
 - 11,800 SF of Retail
- Updated counts conducted in 2017 at all intersections except:
 - MD 97 at MD 193
 - MD 586 at Reddie Drive
- Future analysis assumed realignment of Grandview Avenue at Reddie Drive intersection

| Updated Overall Level of Service Summary | | | |
|--|-----------|---------------|-------------|
| Intersection | Peak Hour | Existing 2017 | Future 2018 |
| MD 586 at MD 193 | AM | E | E |
| | PM | D | E |
| Grandview Ave at MD 193 | AM | B | B |
| | PM | B | C |
| MD 97 at MD 193 | AM | C | C |
| | PM | C | C |
| MD 586 at Reddie Dr | AM | B | B |
| | PM | C | C |
| MD 97 at Reddie Dr | AM | B | B |
| | PM | B | B |

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2017 Study 95th% Queue Results

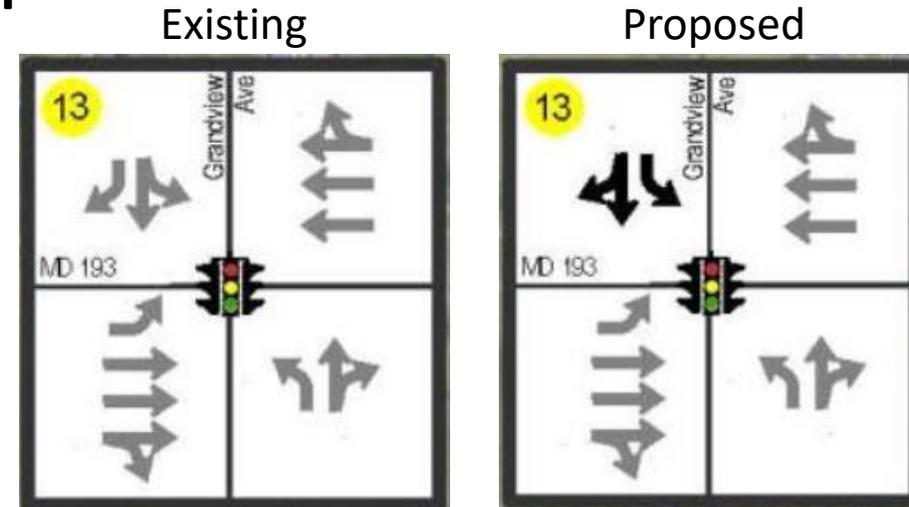
- Critical movements with less than 300 feet of spacing and did not spill back under existing conditions but do under future conditions:
 - Westbound Left from Reddie Dr. onto MD 97 (AM and PM)
 - Westbound Left from Reddie Dr/Grandview Avenue onto MD 586 (PM)
 - Northbound Grandview Avenue Through-Right at MD 193 (PM)



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2017 Study Recommendations

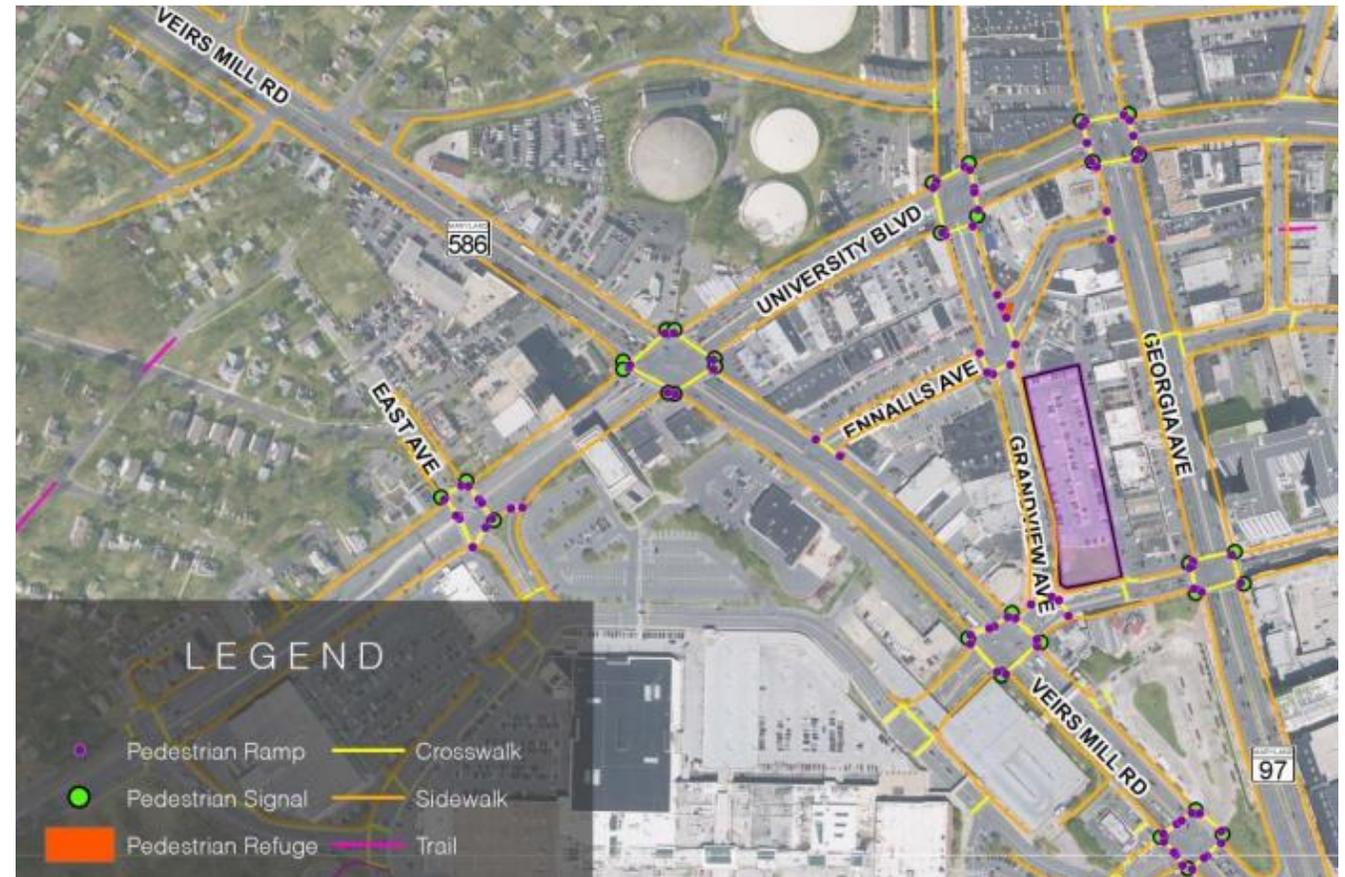
- Exclusive/permissive left turn phasing for:
 - Reddie Drive/Grandview Avenue at MD 586; **Requires Reconstruction of Traffic Signal**
 - Grandview Avenue at MD 193; **Implemented 2018**
- Restripe the southbound approach of Grandview Avenue at MD 193 to a left and a shared through-right; **Implemented 2018**



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Existing Ped/Bike Connectivity

- Sidewalk is available on both sides of each roadway within the study area
- Each study intersection has sidewalk ramps at each corner
- No bike facilities are provided within the study area



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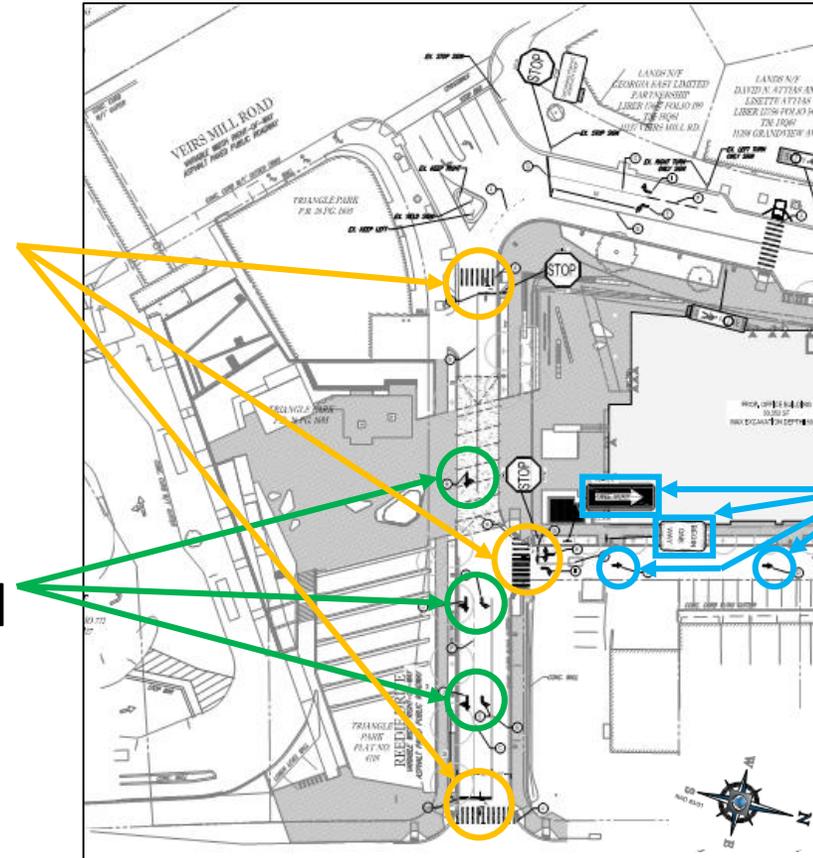
Ongoing Area Projects

- Restriping of southbound lane use of Grandview Avenue at MD 193 to an exclusive left turn lane and a shared through right lane. Exclusive/permissive left turn phasing for north- and southbound Grandview Avenue also implemented – *Complete*
- Curb markings along MD 97 between Reddie Drive and Price Avenue – *Complete*
- Non-traversable median along MD 97 between Reddie Drive and Price Avenue – *Construction Imminent*
- Lane narrowing along MD 97 between MD 193 and Reddie Drive – *Complete*
- Reduction in speed limit along MD 97 between MD 193 and Reddie Drive – *Imminent*

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Reedie Drive Improvements

- New crosswalks and stop bars across Reedie Drive and Triangle Lane
- Lane Use Markings to be installed along Eastbound Reedie Drive

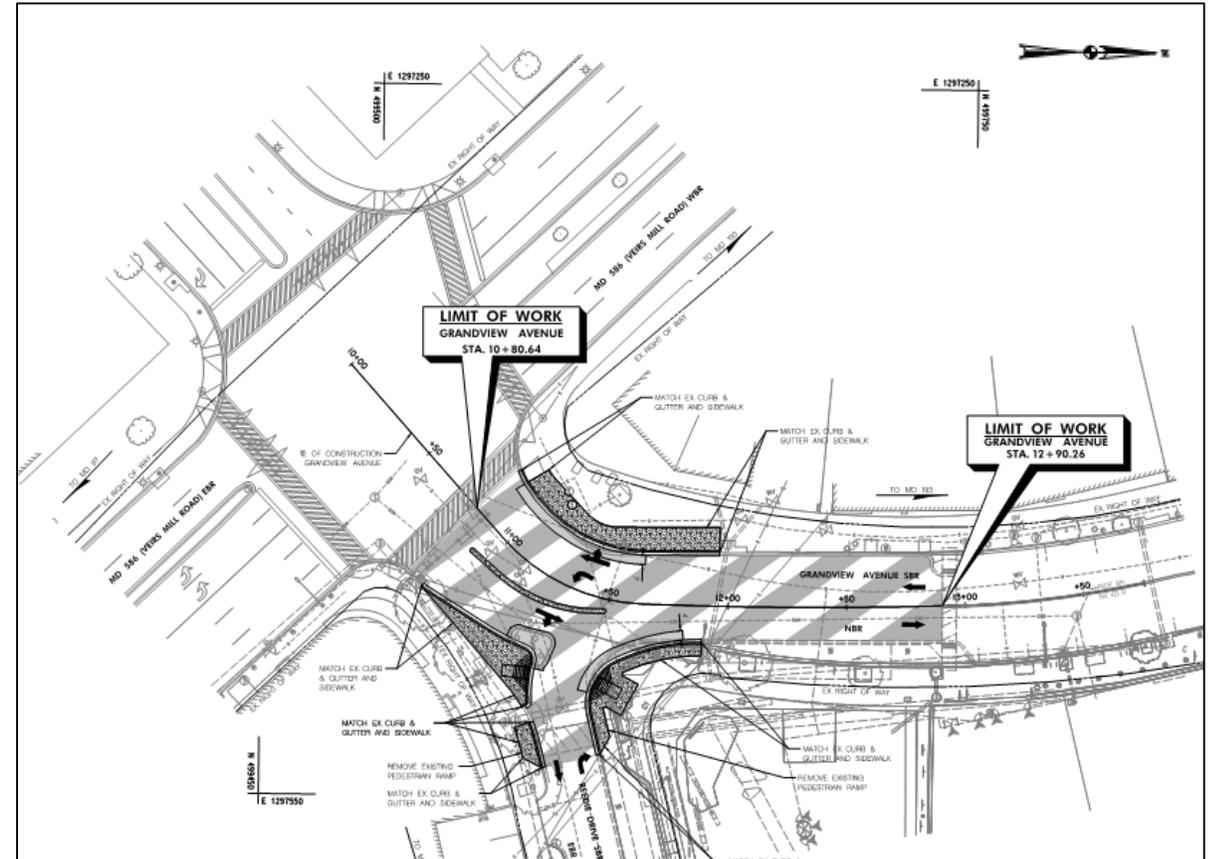


- Pavement Markings and Signage associated with one-way Triangle Lane

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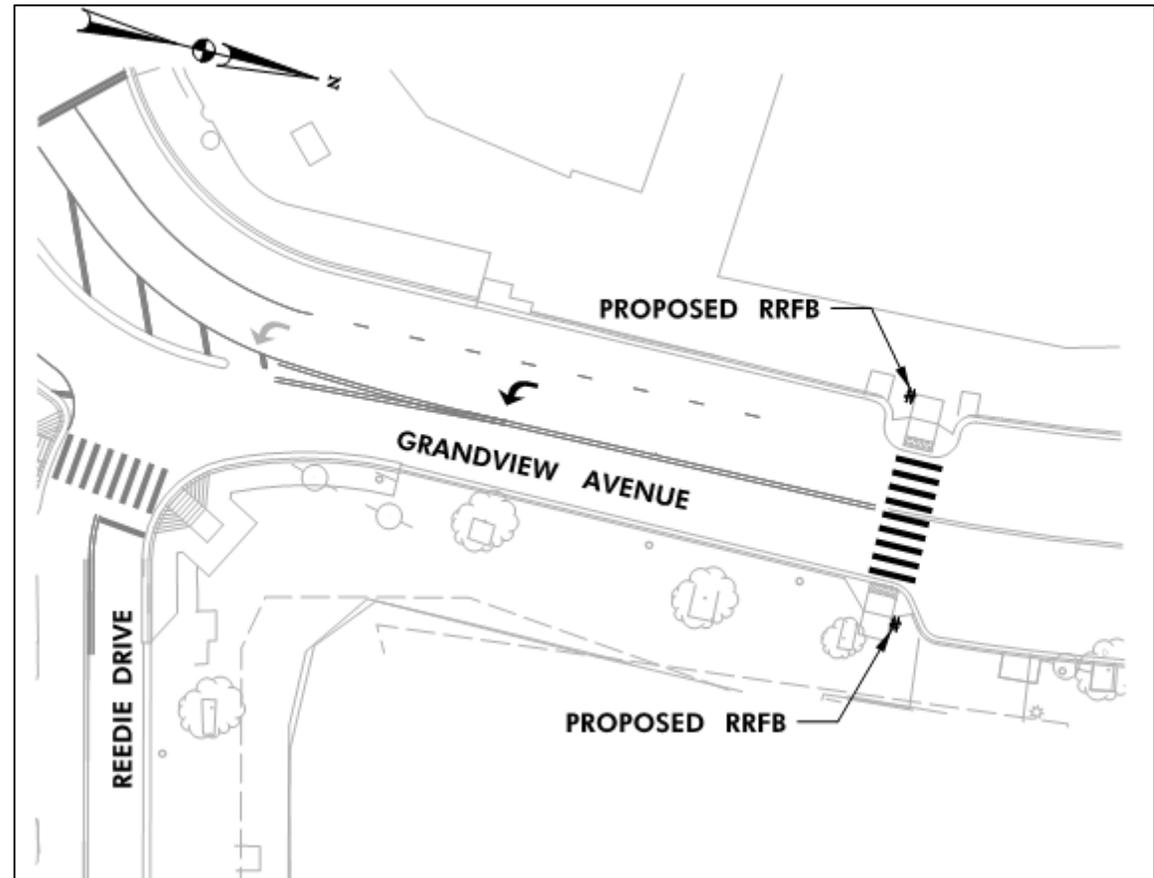
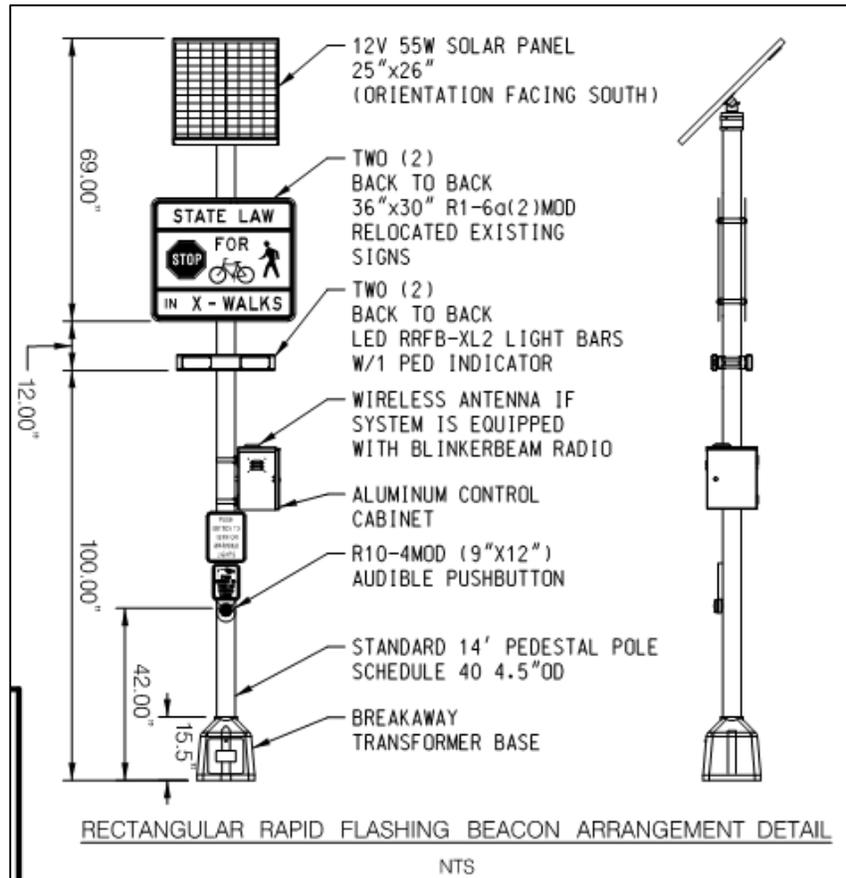
Reedie Drive at Grandview Avenue Improvements

- Realign Grandview Avenue as the main street at Reedie Drive, removing the existing stop sign on Grandview Avenue
- Restripe the Grandview Avenue approach at MD 586 from the existing three lanes to two lanes (one left turn lane and one shared through/right turn lane)
- Install midblock crosswalk on Grandview Avenue and install Rectangular Rapid Flashing Beacon (RRFB) and associated signing at midblock crosswalk



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Grandview Avenue Proposed RRFB Improvement

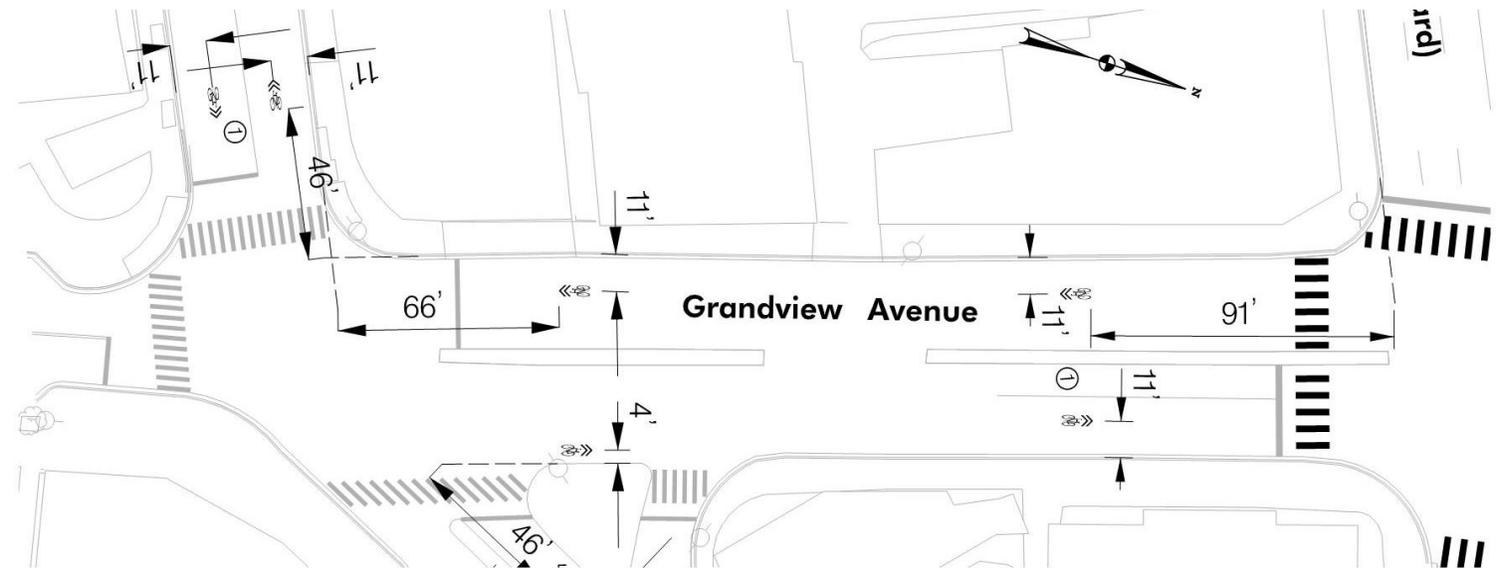


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Grandview Avenue Improvements

Recommended
Improvements:

- Install shared lane markings on Grandview Avenue between Ennalls Avenue and MD 586 (Veirs Mill Road)

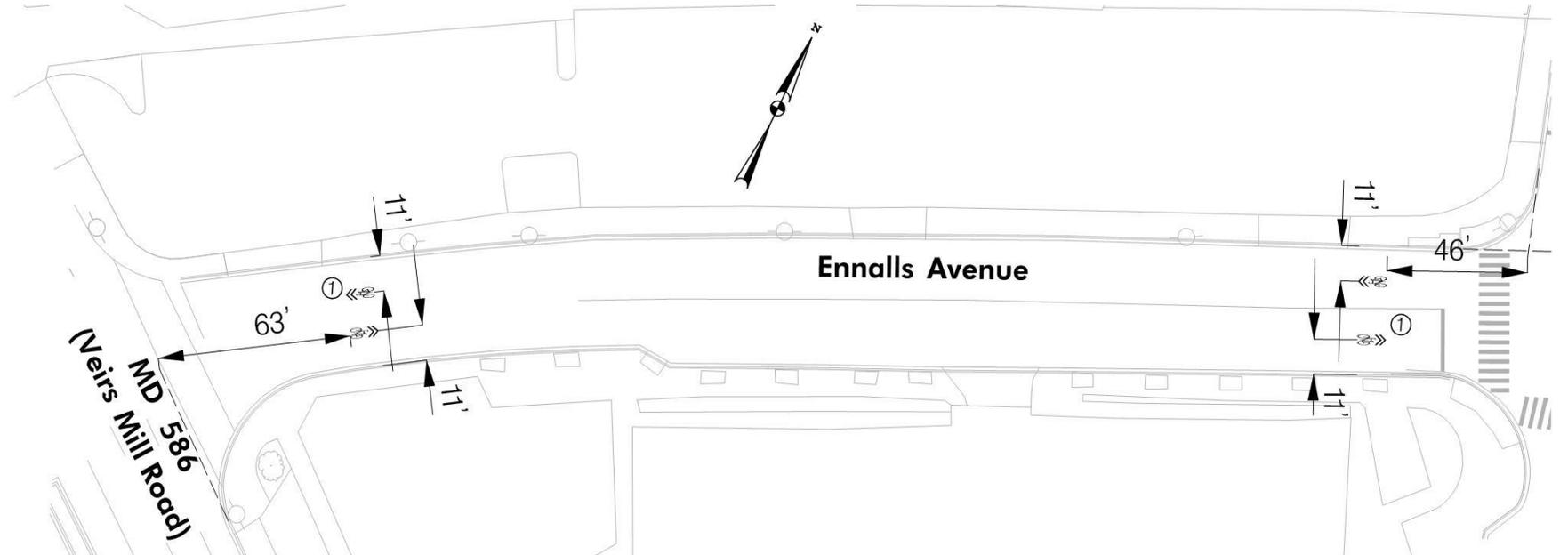


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Ennalls Avenue Improvements

Recommended
Improvements:

- Install shared lane markings on Ennalls Avenue between MD 586 (Veirs Mill Road) and MD 97 (Georgia Avenue)

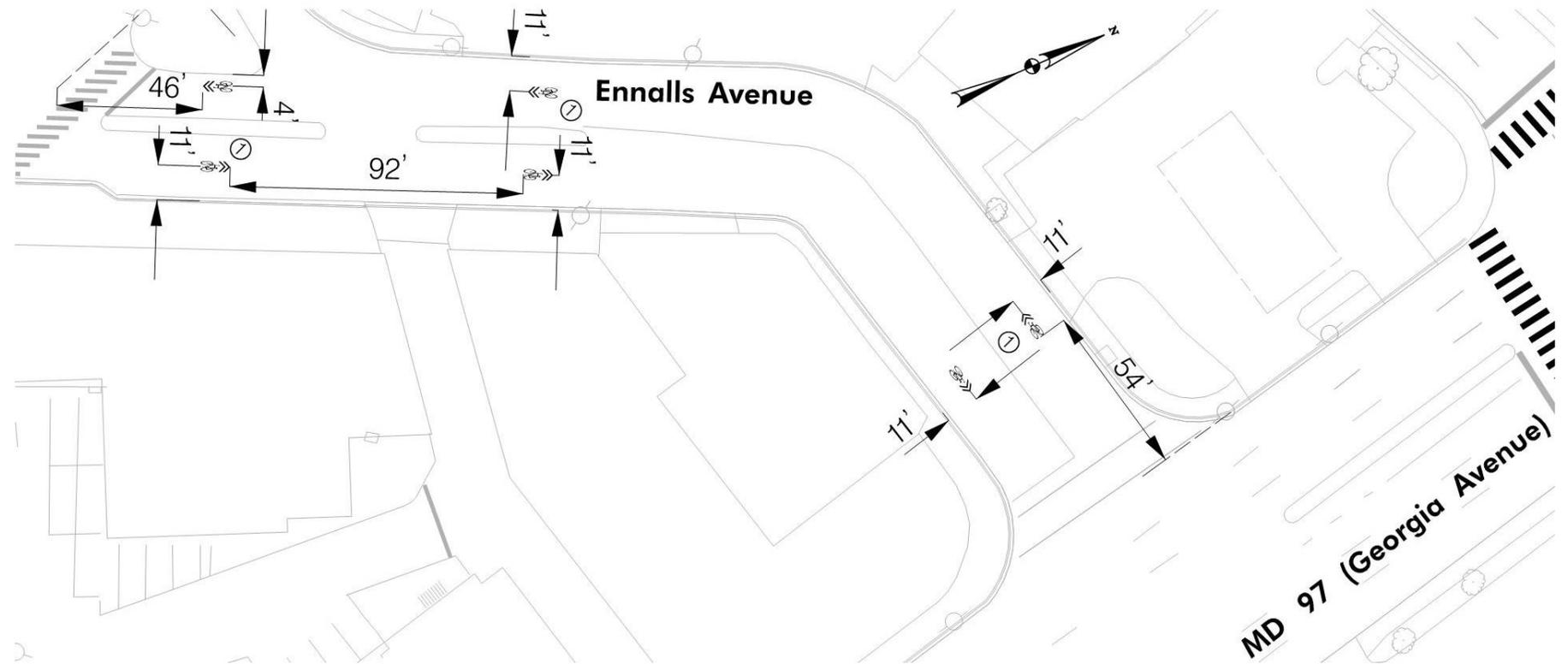


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Ennalls Avenue Improvements

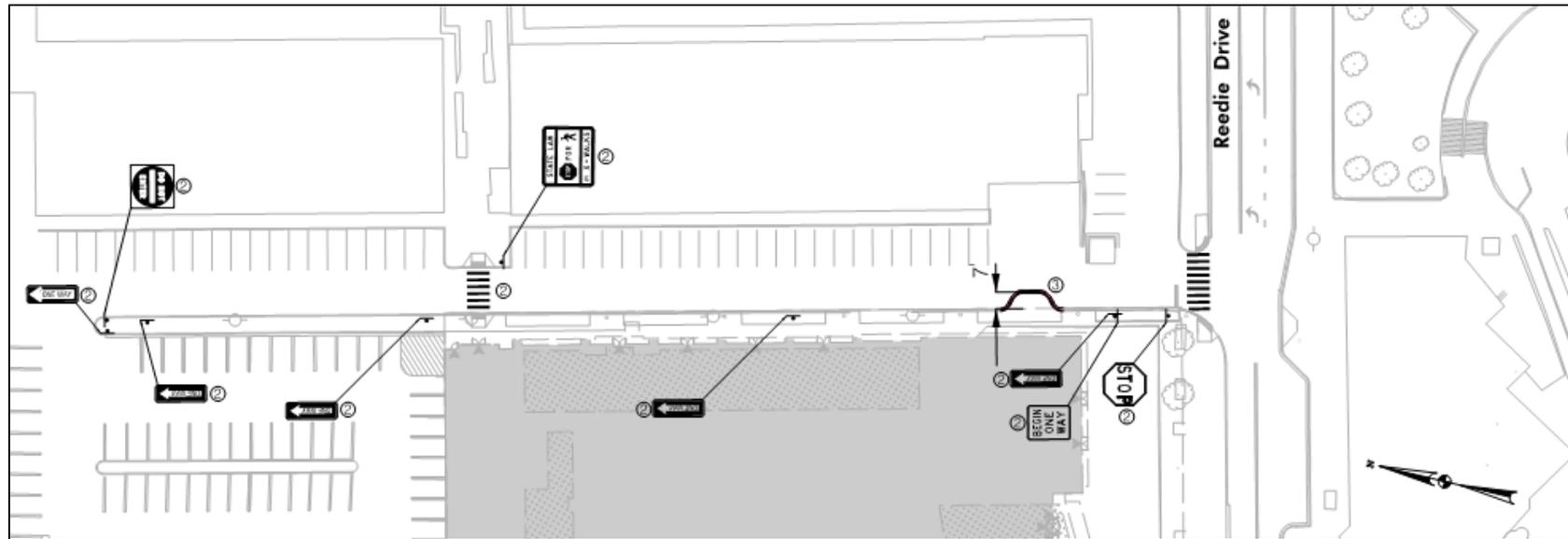
Recommended
Improvements:

- Install shared lane markings on Ennalls Avenue between MD 586 (Veirs Mill Road) and MD 97 (Georgia Avenue)



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Triangle Lane Improvements



- Install signing and pavement markings needed to maintain one-way traffic on Triangle Lane
- Construct a bump out to emphasize one-way traffic on Triangle Lane

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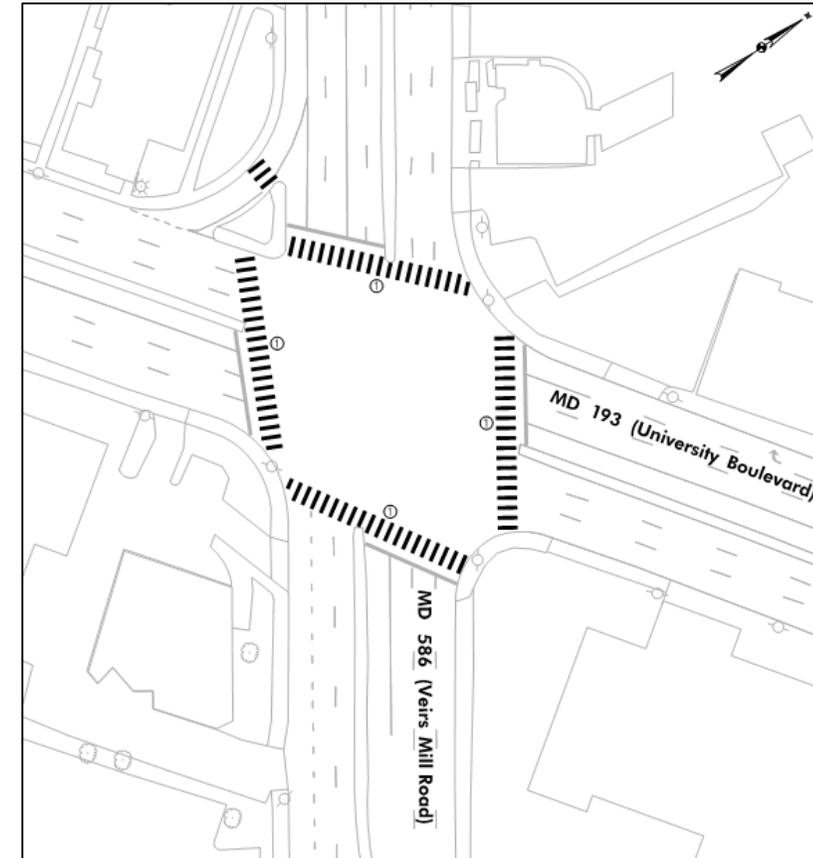
MD 586 at MD 193 Conceptual Layout

Existing Conditions:

- Sidewalk ramps present on all four corners
- APS provided on all four corners

Recommended Improvements:

- Upgrade crosswalk pavement markings to high visibility ladder bar type markings
- Upgrade sidewalk ramps to ADA ramps where applicable



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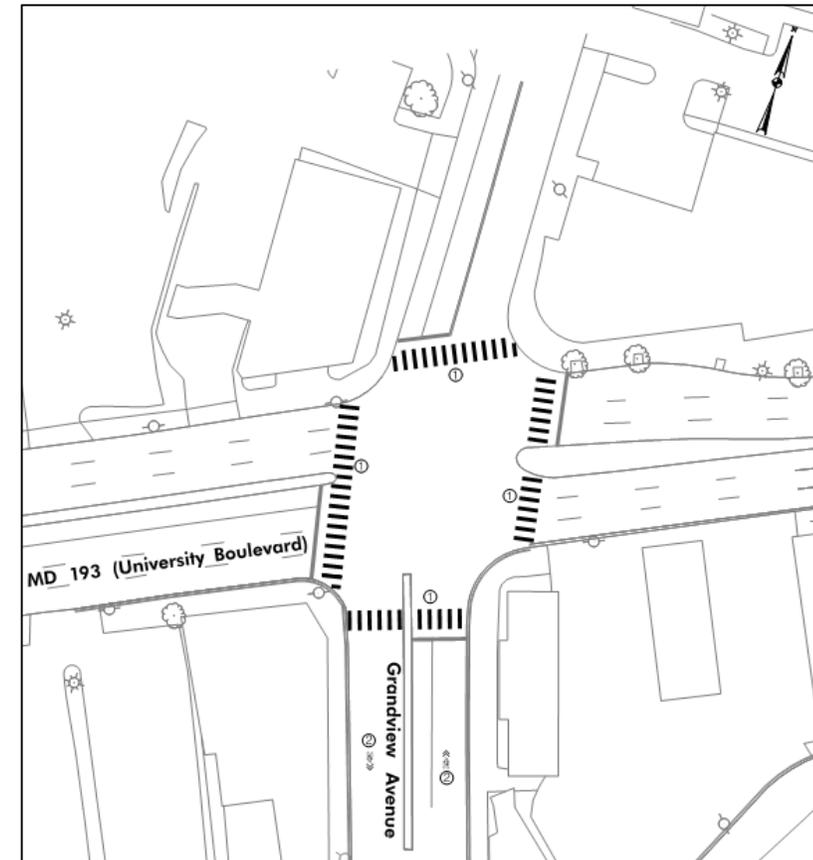
MD 193 at Grandview Avenue Conceptual Layout

Existing Conditions:

- Sidewalk ramps present on all four corners
- APS provided on all four corners

Recommended Improvements:

- Upgrade crosswalk pavement markings to high visibility ladder bar type markings
- Upgrade sidewalk ramps to ADA ramps where applicable
- Install shared lane markings on Grandview Avenue



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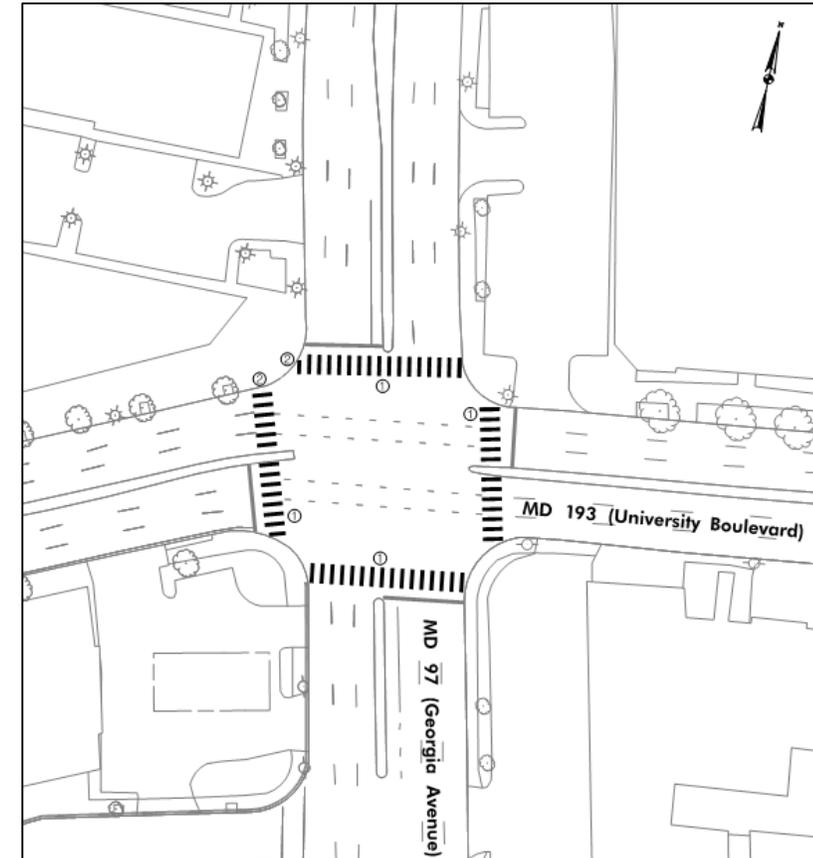
MD 97 at MD 193 Conceptual Layout

Existing Conditions:

- Sidewalk ramps present on all four corners
- APS provided on all four corners

Recommended Improvements:

- Upgrade crosswalk pavement markings to high visibility ladder bar type markings
- Upgrade sidewalk ramps to ADA ramps where applicable



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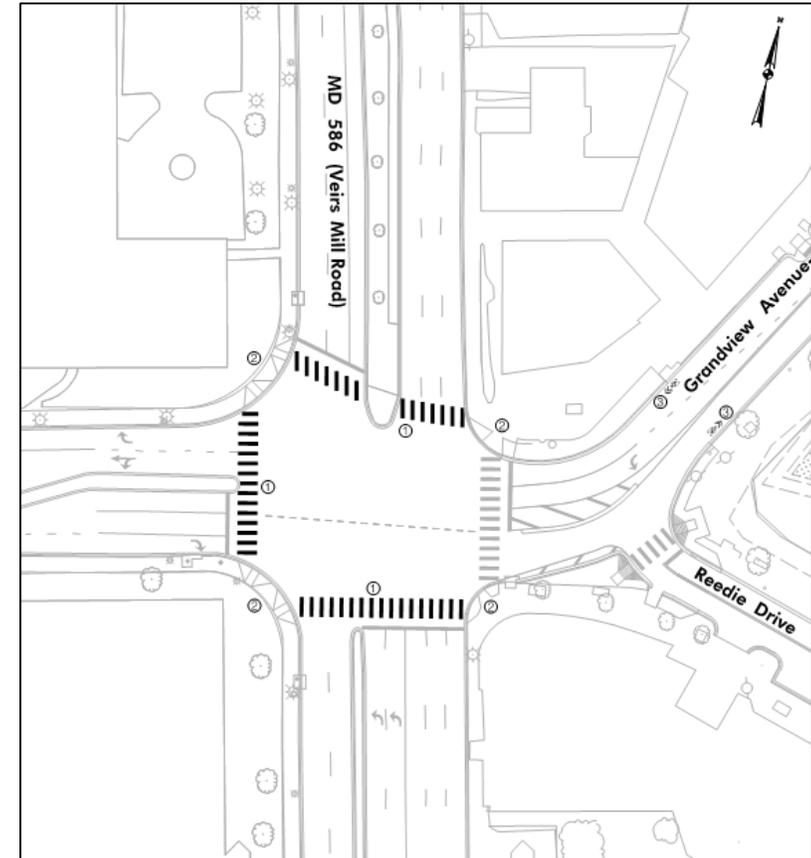
MD 586 at Reddie Drive/Grandview Avenue Conceptual Layout

Existing Conditions:

- Sidewalk ramps present on all four corners
- CPS provided on all four corners

Recommended Improvements:

- Upgrade crosswalk pavement markings to high visibility ladder bar type markings
- Upgrade sidewalk ramps to ADA ramps where applicable
- Upgrade to APS on all corners
- Install shared lane markings on Grandview Avenue



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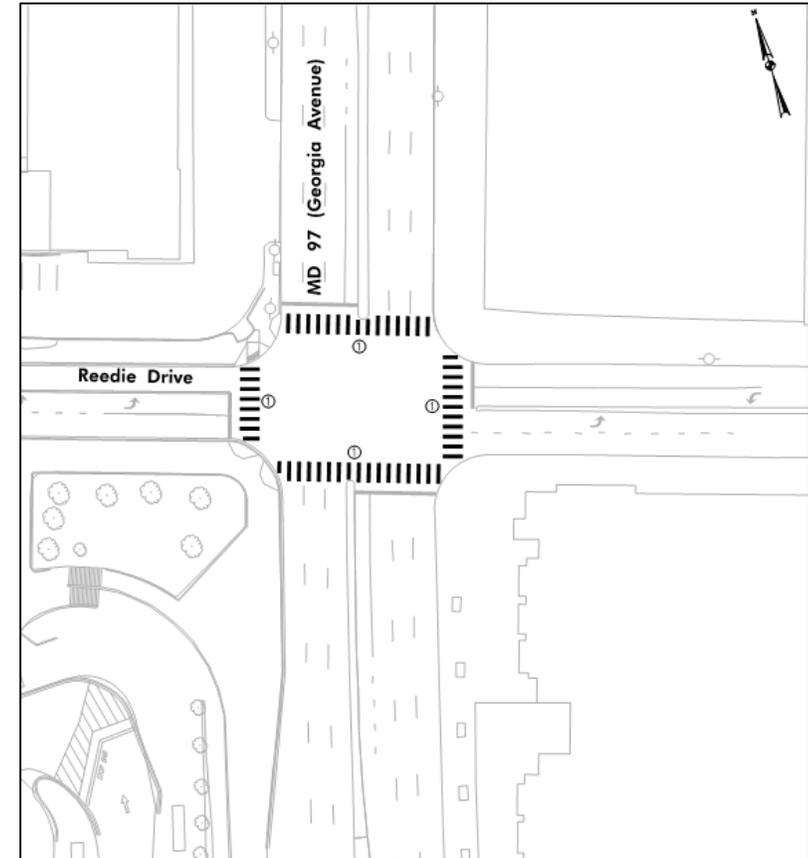
MD 97 at Reddie Drive Conceptual Layout

Existing Conditions:

- Sidewalk ramps present on all four corners
- APS provided on all four corners

Recommended Improvements:

- Upgrade crosswalk pavement markings to high visibility ladder bar type markings
- Upgrade sidewalk ramps to ADA ramps where applicable



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